December 7, 1963

	Linear Phasolver Measuring Engine	
	The heart of the Phasolver is the driver pattern to be laid down on a glass substrate and the coupler pattern to be laid down on a parallel glass plate.	
STAT	designed a new pattern to minimize errors and insure achieving the 1 micron accuracy. It is a sinusoidal pattern similar to the one used in their rotary phasolver.	
STAT STAT	They are having trouble getting definitive bids for making the patterns. will make the glass blocks for substrate bid to make the coupler only mich is straight ruling bid the Driver pattern only. on glass.	
STAT STAT	has promised to bid the driver manufacture from pattern gave them a telephone quote on both the driver and the coupler, but they cannot get a written quote from him.	
STATINTL	The trouble with getting the pattern work placed is putting them behind schedule. If they get the orders placed by 1 Jan., it could be as late as 1 July before they receive the finished driver.	
	This is the pacing item and everything else is well in hand. They are putting a lot of pressure on getting the Driver work under way.	STATINTL
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1 (5)	DECLASS REVIEW by NIMA/DOD	

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	and	
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	Variable Width Film Reader.	STATINTL
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STATINTL	Work was started last July and delivery is due 30 March. They are presently a few weeks behind schedule, but hopes to have the machine ready-fer assembled and ready for test by the end of February. That would give them the month of March to check it out.	
	That estimate seems a little optimistic, I doubt if they can make up their time. I suspect a few weeks delay isn't critical, so I did not press the point.	
STAT	has done an excellent job of checking out the un- knowns of this gear in the breadboard stage. I wish their sister subsidiary in West wood did as well.	
	The operatingmodel of the liquid gate worked beautifully. To eliminate bubbles going across the gate, they are building a low welum pressure, high volume slow acting pneumatic operated pump. It will operate about 5 strokes per minute so there will be no vibrations generated by it.	
STATINTL	They are greatly goncerned about operator convenience in changing spools and are working hard an this aspect. It is difficult because the spools are enclosed in the liquid chamber and the rollers and gate are submerged. Permanent leader seems the beat answer for threading.	
STATINTL STATINTL	is doing their optics. He is probably best known for his wide angle anamorphic Motion Picture Lens. Precomended for the projection optics and he is currently working on the condenser optics. This will probably be one lens with auxiliary elements for the different powers. is not presently satisfied with the uniformity of illumination he is getting on the screen. The optics work is behind schedule and is holding up some of their other design work.	STATINTL
STAT STAT STATINTL	They will use a 5 KW arc lamp as a light source. The lamp is in hand and they are about to start testing it. The digital counter for the reading head will be delivered to by by the end of next week.	STATINTL STAT STATINTL STATINTL
STAT	project engineer seems to have mos Approved For Release 2002/11/15: CIA-RDP78804747 A001800120006-5 ung good control of their costs and exp	